

# LOCTITE ECCOBOND LS 3106P

May 2016

## PRODUCT DESCRIPTION

LOCTITE ECCOBOND LS 3106P provides the following product characteristics:

<b>Technology</b>	Acrylate
<b>Appearance</b>	Clear to slightly hazy liquid
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>• One component</li> <li>• UV curable</li> <li>• Low viscosity and thixotropic index to provide excellent self-sealing</li> <li>• Low weight loss</li> <li>• Long pot life</li> <li>• Good adhesion</li> <li>• Good waterproof performance</li> </ul>
<b>Cure</b>	Ultraviolet (UV) light, UVA/B or LED light
<b>Application</b>	Lid attach, Sealant

LOCTITE ECCOBOND LS 3106P is specifically designed for bonding optical components requiring excellent water proof sealing.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield - DVE3T, 25 °C, mPa·s (cP):	
Cone & Plate, Spindle 51, speed 1 rpm	2,818.5
Thixotropic Index	1
Specific Gravity, @ 25°C, g/cm <sup>3</sup>	0.97
Pot Life @ 25°C, days	7
Flash Point - See SDS	

## TYPICAL CURING PERFORMANCE

### Recommended UV Cure Condition

Light Source and Condition:	
Fusion Lamp or LED	
Light Intensity, mW/cm <sup>2</sup>	100
Spectral Output, nm	365
Exposure Time, seconds	30
Depth of cure @ 1,000 mW/cm <sup>2</sup> , mm	1.9

LOCTITE ECCOBOND LS 3106P can be cured by exposure to UV and/or visible light of sufficient intensity. Cure rate and ultimate depth of cure depend on light intensity, spectral distribution of light source, exposure time and light transmittance of the substrate through which the light must pass.

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

## TYPICAL PROPERTIES OF CURED MATERIAL

### Physical Properties

Hardness, Shore A	80
Weight Loss during UV cure, %	≤0.24

## TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength :

80 x 80 mil x 15 mil thick glass slide:	
Sample cured 1,000 mJ @ 365 nm:	
@ RT, Kg	6.0
After 24 hours @ 85°C/85% RH, Kg	6.73
Sample cured 3,000 mJ @ 365 nm:	
@ RT, Kg	7.06
After 24 hours @ 85°C/85% RH, Kg	6.47

## GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

**This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.**

## DIRECTIONS FOR USE

1. This product is light sensitive; exposure to daylight, UV light or artificial lighting should be kept to a minimum during storage and handling.
2. The product should be dispensed from applicators with black feed lines.
3. Ensure all surfaces to be bonded are free from surface contamination.

## Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

## Optimal Storage : 25 °C

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative

## Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

**Conversions** $(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$  $\text{kV/mm} \times 25.4 = \text{V/mil}$  $\text{mm} / 25.4 = \text{inches}$  $\text{N} \times 0.225 = \text{lb}$  $\text{N/mm} \times 5.71 = \text{lb/in}$  $\text{psi} \times 145 = \text{N/mm}^2$  $\text{MPa} = \text{N/mm}^2$  $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$  $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$  $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$  $\text{mPa}\cdot\text{s} = \text{cP}$ **Disclaimer****Note:**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

**In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:**

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

**In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

**In case products are delivered by Henkel Corporation, Resin Technology Group, Inc., or Henkel Canada Corporation, the following disclaimer is applicable:**

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

**Trademark usage**

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference 1

Americas  
+1.888.943.6535

Europe  
+32.1457.5611

Asia  
+86.21.3898.4800

**For the most direct access to local sales and technical support visit: [www.henkel.com/electronics](http://www.henkel.com/electronics)**